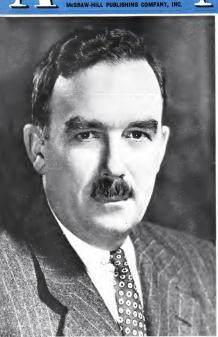
ANSTION DEWS MGRAW-HILL PUBLISHING COMPANY, INC. SEPTEMBER 11, 1944



World Air Force for Occupation

X-Day Production Picture Forecast Sharp cuts in Army plane or-

ders seen as Allied victories mount; little change in Navy contracts predicted...........Page 9

British Output Spotlights Ours American production for 1944

expected to exceed 90,000 turned out by England from September 1939 through 1943......Page 35

Seek Civilian Lightplane Okay

Applications already being studied by WPB and WMC; new planes may go on market shortly after first of year......Page 13

See Vet Program as Pilot Reservoir

Air Power Blitz Role Credited

Allied superiority in aviation seen turning tide and speeding war's termination; importance of air control stressed......Page 23

Improved JP Systems Under Way

CAB Opens Hawaiian Route Hearing Six lines apply; Maritime Com-

mission lawyers bolster Matson Navigation in attempt to get certificate for steamship firm Page 43

Heads Airline Policy Committee: As new chairman of the Airlines Committee for United States Air Policy, Alexander Burgess Rope leads the fight by 17 domestic airlines for regulated competition in post-war international air transport operation. A New York attorney, he joined the Committee in its Yeorganization as special counsel and after seven weeks of study of the Committee's stand, he became chairman. (Story on Page 45).

Motor-bike built for two



Here's an excellent answer to the need of airports for highly-module fleeextinguishing equipment. Meaned by absence-clud firmers and leaded with Kidde carbon dioxide extinguishers, this metarcycle "credit trust" can reals right up to crash frees and other blazes and souff them out quickly under a seal souff them out quickly under a

the carbon divasible extinguishers, motorcycle "each truck" can rush trup to crash frees and other blazes —in the air or on the promotor the wide

make their fast fire-killing effect fulls

available to our fields. There've consist

ad souff them out quickly under a hasket of earlies disoidle gas.

Kiddle extinguishers are being



THE AVIATION NEWS

Washington Observer

AIRFIELD MAINTENANCE - Cities and counties looking forward to obtaining nearby Army and Navy Selds will find same maney will have to be speed on their "gifts." Some exports are wondering how many realize what upkeep costs are going to be, pointing and that while expense will vary widely, a good rule of thursh would indicate \$15,000 a year plus salaries. Many conflor consequentials will not be able to offerd such a lucury with the business in sight, will back to state and federal governments to take over. The country may see a repetition of abendancest of WPA fields built in 1933 and 1934, when communities cofused to malatsin fields after the federal gaverrenent had built them.

to be a reserved to their entitioning to be contain asymptotic for extension to require the flower functional Matrice and Patherns Constaining conference will focus admittals on the question with factor dispared public hearings this week. It appears that extension patholes are rights, and with interests with confidence to push for a rights, and with interesting force freeze may on out. Charmen Bulley (Ph. P.C.) of the Seattle Contractor Contraction as well as Charmen

man Los (D-Caist.) of the House Interstate and Foreign Commerce Committee are known to be likelying with a wary spee or the steerablp lines' case in this instance.

highly-published marpooner printilly referral plan, which WRC Chairman SHAND interded. July 1, was charry pointed in by the WRF returned by the Common state of the Common of the the German was read and the exemption of civiline goods in authorized on on succentrated to the Common of the Common of the Common of the theory will be in the way. WRC efficiely received this week as forthwestern association of the Common of the Common

CHINA SURVEY—Purpose of Donald M. Nchoe's trip to China, while will not formally ansassaced by the President, aspectred prefay well established last week. The WPS clief will make a survey to determine what assessed or espital posits China needs for partial con-



AVIATION NEWS . September 11, 1944

real estate or other developments.

Where Commands are Vital

Al high clititudes and under all temperature and humidry unablance, Perediture Dynomit bendphares humidry unablance, Perediture Dynomit bendphares meet prounding buttle requirements with rugged mechanical strength, and the survent in communications mechanical strength, and the survent in communication set the pace of improved broadbase performance under adversa naise conditions are making that comtibution to the superior line of Perenditus Speakers, Microphanes, Treasformers and other electronic concernity.

SULV WAR BONDS FOR VICTORY

PERMOFLUX
PERMOFLUX CORPORATION
4916-22 W. Grond Ave. Chicago 39, III.

AVIATION NEWS

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AVIATION NEWS . September 11, 1944

verses from an agricultural to an industrial nation. Various factors building on foreign trade positions will also be explored

NILIGIN NAMED KRUG—Whan the Nelson-Witten study broad Witten study broaded as a reader reserving state of WFE a free weeks ago, it was Daniel M. Nelson binned who made of J. A. Krug as his uncersaor. President Rossovsk, it is now haven, that ask knees Krug and the latter had with the state of the state

BATCHELLER STEENOTH--Few people how of the justa for bridges Blazed G. Batchelor has in Willers, and the latest G. Castrean, I. A. Krey's besides; to ensure a speculation over the latest construction of the statistical reserve fills, as one of the small apparatual of the latest great construction, which paratual of the latest great construction of the paratual of the latest great construction of the reserve fills and the statest of the statistic reserve fills are the mode and of certy mental of the latest great construction of the paratual cast for stream range for the pile for the latest great construction of the latest great for the latest great construction of the latest great for the latest great construction of the latest great for the latest great great great great great great for the latest great great great great great great great for the latest great great great great great great great for the latest great great

AVIATION CODDITETED—The ausoins of a Congressional consultate to handle the subject of a visities in being reserved by Rep. Jernings Randolph, at West Virgions, who pointed cut is a upsech at the recent Systhesisers Alepser Conference in Arburn Ale, that the Merchant Marine and highway systems have essentiates and many and the subjects of the conference in Arburn Arburn Arburn Alepser Conference in these uniques deathy. Avustion, Randolph cited, it has filled by the Interestics and Precing Commence concentions, which have it

SUPCOMMITTEE TUB-The Breddyle antition but within consulties followed spacetree of the superior of the superior of the superron getting to talk with seasoners of the Avistion Subsectedities of the House Internitie and Poyriga Centered Congrative These groups complished that the sirines lead the control tenent in being to code with other proups,

PLANNING VALUE—The committeemen did get to see searching of sinparts and projected sites at each stop, which illustrates one value of sinpart planning todays. George Roberts, Illinois aviation resembosiners, helefs the value of stansing in five fold. Pres. It tilmulates intreest in simpart development in the extractivity. Second, it provides a basis for estimates of each traces and there have a basis for estimates of each traces and there have a bertian of certain sizes. The extraction of the ext

WARTS AGAIN—Some publishy sources believe that opposition to the WARTS within the Art Proces would be considerably reduced and purhaps almost eliminated at the waters plottly were taken of feery work and given should larget towing audigments. Beaum in that 4r feers, owns of them flyers, are titled to dele-



PLEASURE PLYING—Advertising of pleasure flights in some cities in being fought by volution organizations fractual of rigid gashing variation arguments are related to the property of the prop



Sentember 11, 1944

World Air Police Force Reported

Being Formed to Occupy Axis Areas Organization expected to be installed to work with occupying world peace organization. treops in enemy territorics and guarding newly freed nations

By WILLIAM G. KEY

An international sar police force peace treaty, informed sources said last week, with an organicotion now being charted. It will be small to be controlled efficiently Bootson, Brotush, and American of Germany, But each, under yourent planning, will contribute units nenta-

Military Air Transport Serviceindicated, will be a multipry air determined. B is the consensus that beither Germany nor Japan. that country, or an international corporation set up under a the United States will expely the masor portion of any military transport service. This would be more practical in that the pre-

the Bassian and American Air Forces consists of Douglas planes

in fighters of the ground support twee that would be most advantarrens in an occupation strivers. t Occupation Air Force. The occudecirned not only to handle our

to their own our forces can be built up, trained and equipped. In this phase of operations it

Rockets Successful In Assisted Takeoff Device not likely so be used by AAF, however, ATSC engineers

use of roring power to asset heavily leden amplanes in takeoff, the rocket-assisted takeoff procedure is not expected to see AAF melitary tartical use, engineers of the Aut Tuchased Service Corsmand, for have been that the recket asmed natures such as Prance, Carchastevakie, Assina, Bungary, sistance will have an entremale Grucce, Yugoslavia, Roly, Poland limited utility. Orwanal nursaus accression or civil disturbance un- planes to left beavy loads into the



ROCKET ASSISTED TAKEOFF

American bombers could be used MC engineers have been testing rocket asseted take-ada seece 1940 war, that British bombers are Other tests here been made on A-Mrs and the Mars has utilized More surfable for European pperations. tis PRM's. They are successful but probably will not be used incircolly AVIATION NEWS . September 11, 1944



AVIATION CALENDAR Con., 1d - As Jim Munches: Assessment, Oct. 54-Magnesia Associate Soi record Test.

On African Statement Arrests Engineering and Production Stating Los Angeles. Ont. 19-to-Shar of Assistantial States of Maries Service Art Transport Housing States Bank Workington Non, 18-c4-Nichael Assession of Ste Asterios Officials, Assessed Meeting, 640 HE AND COMPANY OF THE PARTY AND THE PARTY AN

not as effected for takents, and

ACCA Organization

salved problems of fucis, weight Program Completed labo Lee makes pengress report Council was held supulfaceously

waved for reuse. The rockyte were

Reprogrammetten of the Account-John Lee, who has been active made a progress report and the

differ from the special of "racket" level in the stratosphere. The our-

*Effective provision should be

• Research—Confronted with two

note of the source and drawned by a Three-Day Sensian. The three- the built of surplus plane takes



day sessen opened with a meet-

at which Denild Douglas, of Desg-Marchey, president of Republic

Aviation, president of the Engl Shift Personnel To Handle Sales

CAA-WTS personnel has been DPC will be maintained in the after their sale by DPC, but tronsfor of the WTS assessed to DPC is being speeded beyond the h Sole Mearing Seal-Sale of WIS

X-Day Production Forecast

) With emphase on the B-32 and self as combat is not needed at the E-28, it is blocky that Food will. Energy in the quantities expected Production of B-36's and B-37

reach between \$5,000 and 100,000 the Parish was to play more than a \$ Northern's P.61 Heart Water.

Douglas Sees Rising

A hist of post-war place being

Speaking to some 450 key em-

and the Naval Air Transport

expedite rebubilitation in Europe

Need for C-54's

Figure Fertremes probably will boyl off at approximately 200 a previously renounced, although his form rot mean they well be The output of North American's B.E. Muskell medium bombers & Dougles' C-47 will remain close Fivoduction of Maytor's B-16 Plackbeed's P-30 Lightness out-

Borne reductions are in store for

Lackbands Constellation will Transer predectors is toporong of and will contract until it ele-Production of Republic's P-47 at will fade to a dribble Oliders probably will be gut to months with the Farramptole plant Farenata made by those West-

and is in operation in the Prenty, but its production schodules prob-

Bichedules on the Curton C-46

sagton observers, they emphassed. Opportunient officials are emphasis:

that Douglas employees our expect of Operations, Plans and Intelli-He also astropates building

Plane Returns Cut Mail Offloading

engine transport to commercial Norstad Joins 20th Bris: Gen Lauris Nazztad has the Twentieth Air Force, with 4.533 Inno. at report them 556 reliefs.

headquarters in Washington, D. C. The 28h is world-wide and opulsued salely with Bosing Bb Due Millen Letters a Day-More than 2,000,000 letters a day Gen Norstad has been Dunector

Continued Market Farecast-Shawarter transports than the AVIATION NEWS . September 11, 1944

AVIATION NEWS . September 11, 1994

Curbacks Up to 15% on Planes Scheduled A cutbook of five percent in air-

1945 and 15 percent for the latand better than 1,000 per month mally has been about 1,500 a The privatales as most recently modified, call for 7,004 planes in that over 1,000 house horshers decrease sheldly thousabout the

year. August maleut was 7,500 ser-1 300 the 1 500 much become been schecksled A233. The July total Production officials were not ers, so a result of reduction of ower, and considered August ac-20-24 cateco, provincially ancreaming producerance of the tion of Borng's Auscriorireses doction of the government to constitutes an ever increases

by air mail. All together, mare Record Category thus 1,500,000,000 process were For Transports

make formal acceptance of planes sale after modalizations for com-

producing reverse Walter esti-

moted at \$105,000.866. The fact

Arseries and the West Indice.

Free Ballooning Propededicy of region) of free halloomer in the United Dearen.

war, is suggested by the news that Dr. Juna Property, mary

stratom here ballogest, now as-

NAA concest board rules that craft scheduled for flight many first be inspected and approved. chauce by the rightie as the mostal Establishment of a new record extensey for transport places has een announced by the corders While schedules of foreign sir bood right further that transport

> proved by the Civil Accounties two of two official thinks records for const-te-const firshts by AAF

which beretafore has been can-

a Glenn L. Martin Co. has been post-war aircraft with greatly inlocastry for 1943 Consulidated Voltee Average Corp., was ren-Free New Records-West-to-east nengton, Leggi Cal Jack Carter.

Los Augeles menospel sirport to LoGuardia Field, New York, 6 at Konsas City, 6 hours, 31 minutes, The two planes took off from Los Angeles within one misute.

a Hushea Special Manaplano in a transcentmental flight averaging

Minn Commissioner Acre to Close Port Restricting order obtained to enjoin operation of unlikessed field or Anake, 18 miles from

Misnespolis. Arter under the new Morneanta neconnuties code, idself a subloar aga, L. L. Schrieder, Micto choos an already near Minne-Legality of Minnessta's new Metropolitan Airport Commission

court last suramor, after a sun hillsome Breigh-The law rehe branned. Schroeder has abtained a temporary order to restrays George W. Pierre fram operating on olypert at Anges, 18 sules from Memeapolis, on the grounds Perce has continued to last October. Request to make the munition permanent in to be

heard later this march. coversion's unadiction, and

AVIATION NEWS . September 11, 1944

ENGINEERING NEWS REVIEW

U. S. research on jet progulator.

ers. Main reason is that in say

a Carabination Expected First-

Aroually, afternt of set propagation

thing come clong in the line of

Improved JP Systems Under Way; Gas Turbines to Open New Power

Pioneer Bell P-59A Airscowet, superseded in speed and performance by at least one other U. S. plane manufactured by another company, elegady is expected to be relegated to job of testining pilots.

consent court our arm under depart. These groups were looking to openess, with all industrious that the proper Bell P-59A Arrowset siready has been superseded to one newer U. S. plane built by se-R has already been indicated Of much more seriesmess, howcornervae officials row profes

propuller siene, which could not profuce the thrust rected for looked that the furtures of gas Freshiem of Materials-At the have one great common problem,

been seriously operational. When and evision should capitalize in oped to meet the demand for occupying less space, for steamship propulsion. If you turbines could

But was terrbines do offer this L Less weight per horropewer than other petter teavers 2 No comproming masses with re-refring marry moses and vibra rubbing parts except bearing No ridding parts emergi bearings Unifers needing in, conditions of phinoises of energy to the shad. Up to 48 percent or 50 percent higher thermal efficiencies prote also, with nach improvements in creating with expedity

Dranter expection per single unit Considerably less took per borne power to vikinfactors Lower to blocker Eng old concumption with no balanced infestication halfg thought, changes, natur finels thoughty, changes, natur fines the according halfs throught the Adaptahin to a valuely of propest One turbanes erector the same use corner. The main difference nounced that each materials have sion processes are not performed

contra-mining propollers and with rep dischargens

over the troibed edge of the wing Same power

alouts could be furtilled in conventional-designed





above sketches in The Accupiane, reads by Sir Box to Sir Stafford Crisps, Measurer of Asrcraft Produc-

Felides, that engineer of Bristol Acroptone. Ltd . AVIATION NEWS . September 11, 1944



BLACK WIDOWS UNLOADED IN PACIFIC-Scenesshere in the Pecific, Northrop's P-61 Black Widow night Sphore

are inthoded for use of the 12th Air Force spanish the Japa. The plants. Manpower. Problem - Cyrill

is the same chamber. As a result critize because of the bulk and stancerny complication. The tur-

WPB Seeks to Shift Metals Beavily Texas - As Work to Willow Run sa poseble. In redprocating en-B-26 corporates is wanthed by ingires, for expergie, the raind change as possible key to curbuch.

Results of Way Production Board efforts to get some arresult. search on Popul's William Rose educati ecuture, which is being reduced 9-cylinder regine productive of a ho (222 ho per cylinder). It is eylinders Strain and volgation nese plants such as Willow Ben-

phondion of energy is approached. Prester Assisted to Job. Meaned lary subservation of the MPR. popents regulting in lesser wright tion Or, a greater total nower tional appropriately to Willow Stre.

Lockheed to Continue Boypower Program Descripts employment of sta dress needed to managem produc-tion on P.16's, B-17's, PV

bombers and Constellations, com-DREAL SEAS. The "beyopwer" progress of askbeel Aircraft-under which

Decision of the company to con-Lighteeing and Beeing's B-17 Fig-

spells an ond of the war effort is depleting the production lines of > 6001 Bars Employed-Lockbood

Chappellet, Lockberd vice-reen-

6644 yearly rance the company party plarts to put 1999 high school boys to work as the school year gets under way. The program is a.m., from 11:30 to 3:33 p.m. or at \$2 cents. They work \$2 hours

countril from the point of view of

with officers of the Air Technical much more in the recurrection. Service Command at Wright Front

Lightplane Manufacturers Seek Green Light for Civilian Aircraft

Applications of four or five firms already are being studied by WPB and WMC; new planes may be put on market shortly after first of year.

Luthtplane manufacturers are in process of obtaining a green Acung WPB Charries J. A. Krug has subscated WPG will take once it is given the go shend sign, and the community is the lightplane free hand. WPB refused to das-

of lightplane manufacture mubnow being surplied by Delense plied by trainers from Army and

New Lightplanes - Rosumption

First 2,500 or so haboulance said is the WTS-CAA program h Model Chemen A return to erefue renderium will me untit rable Access is revealing two type. Piper is known to have of

* Terrinograft first well beadd its The birty performance Culver

war but may be expected to enter Gliders Reclaimed Three manufacturers are shor-

country. Since the tracture takes

ditions, hussireds of the abdors have been damaged in the pro-Aircraft Corp., St. Louis, Pratt-Reed Corp., Deep Baver, Cons.,

Cover Joins Bell As Georgia Manager

Col. Carl A. Cover, Army and Marretta, replacere Orner L. Wood-Before he was called to serve

and overall organization in the Warked With Mitchell-Calonell pot one was executive officer to

Gen. Brity Mitchell at Langley Field when the farrous beenlong Defore printing Bell, Colonel Cover worked with the Motoriel



With a few winer changes, the Plezzolez vocc on the Armo's B-26 Maguader becomes the tool enclosure of the Nauy's Mara-a bet of trapensons adapting on the part of engineers at The Glere L. Martin Co. Stollow & Hann Co. In the new Mars, tail shows on left, the sail cities

185 decrees play vision. B-26 nate is these right.

CAA Expected to Get Strong Voice In Surplus Property Disposition

Senate-adopted measure provides that report containing CAA recommendations must be submitted to Congress before airpoet facilities can be sold.

will find their way rate ownership properties as House and Schale adjacent to public fields, there are

a report contouring the recommendatons of the CAA must be These relitary dalds will be able to "accommodate the energy A Public Service First Consideratury of Commerce William A. M. able corresponding value." the facers-

tany of War reported

T. P. Wright.

ARCO Not Affected

rector of office with departure of

Changes in War Production

Abolition of WPB's Aircraft

h Wright Gars to CAA...Members

ARCO redutes Myren C

By WPB Reshuffle

port properties, and to prevent public aviation

CAA, will retain title to them Besources Control Office which after the war. However, in many the amport or on it, purticularly those areas used which they have Production Beaci-recommended by its members as action known to have been favorably received by J. A. Kruz, setting director of

property is povernment durpoul



for the aircraft program were prime pophlems which no larger uling Unit, to which priorities on

In the event that ARCO wellowdelegated to earry out the policies set forth by the Joseph Average Tracy plans to be the With (ARCD) representative on the

4 Agencies Assigned Plant Disposal Job

A four-accept committee to reof War Metaleration James F able of the plants to private enter-

the War Pendagtion Board, War h Worker Assistance Plana-Under

AVIATION NEWS . September 11, 1944

lished, manpower and resources

destry and labor. At the same tone the War Managuer Commisparing place for assistant workers use of such plant available.

Krug Seeks to Ease Plant Reconversion

Place firms expected to use U. S. ewood equipment in transition period from war to peacetime production.

Alberta companies with povery may plan to use this equipmont in peacetime work during The whole trend of War Production Beard thinking, as vesced conferences recently, is toward WPB Program WPB is working on plane for unimotion of gar-

duction, but in the menstires coting moderials and supplies

neressary to accomplish the leb. Covereittes will continue to screen cuthedo, Kras indicated the bulk

Northwest Air Service, Inc., oped to industry dysplans and intributing the load from the ton-side metions of WPB. The near headed by Charles H. Bobb. flyer, who is the company's new exing of the base of culbeck au-

Bennombility-Krug slee is making a point of the fact that international accoraft beakers AVIATION NEWS . September 11, 1944



Charl Tear Pdat Roland E. Marten. such a four-biade Agroures, ofter come Martin of Ft. Wasne, Ind .. with the opening of the plant's new field test inhorstony. He man meanlifity for reconversionthat much will depend on the in disposal of surplas goods, errenent-owned machinery, Krug plants and equipment WPS last week was noted to an leter-

Babb Heads NAS

are vested to SWPA. Mort needed supplies sheefd be avadable in quantity as successive reconversions become recmagnestum new in process of be-

ing out back 40 percent in output ada to be transferred to givilian

Air Lines to ferry prospectors. minima equipment and supplier from Seven Islands, Quebec, to Hellinser Lake, Labradar, for La-Co. substiffary of Hellinger Gald The Straurser has a disposable fond of 4% tees, a feel capacity of dell'avilland variable potch messe'. lers and 105 mph, cruising speed,

Flight Test Hangar New Doccoo unit sixes next maxeducturer complete research Oscalar of Acreeroducts' went mirbs test bangar at Daylon, Munamed signort, now gives the promeller manufacturer complete test basicion, Werner J. Stanchard,

general manager annaucross. All flight testing heretofore has hangar, under supervision of pleasily equipped research setup. Martin Chief Test Pilet-Coineldental with completion of the testing, Blanchard has appeared Ft. Wayne, as chaef test poles, Martie, a former Coroner test usbot at Chance-Voucht districts Hetted Altereft, also served previouals

mafti-engine fight instructor, and with Roccoe Turner as charter service pilot and instrument sudruepifota will make flight tests on versus Acceptes models, includon P-61 Kongrobess, and P-51

Mustance, two-blade full-featureagency conmittee to set up pelicy speciel, ux-blade dual retation plants, but disposal procedures for unancounted military planes

Canada Turns Back First Military Plane

PRIVATE FLYING

ATS Sees Vets Education Program As Foundation for Pilot Reservoir

Program could be coordinated with universal training system to complete aviation studies and extend technical education of scudents, spokesmen for Aeronautical Training Society say. Use of the educational power- Firstallations Owned by DPC --

sions of new veterana' legislation. ATS areiting the fact that training tical Training Somety. ATS new is available for training programs. It during this way, a program vir- fine fight and technical training Spokesmen before Congression-

year of compulsory service new be hardled on a orporate box's.

Placressed Campelition Seen --Extended training will be necesof the competitive picture in pastwor aviation, Oliver L. Purka, of business unless they charge their "slap-hoppy, weeds-growunf-un-the-funcinge attitude toword their business." Other trends influencing ATS

furnish a resignate reservois mie which wartime aviation per-

Towns should start with surparks Carl E. Anderson, assistant vice-





ALLIED AVIATION CORP.'S NEW TRIMMER AMPHIBIAN: First Shaht sectores of the new Trummer avenhibrar, with Sage. Hanne is 500 review corrusing two, 350 miles

power the piece turesno tue-blade wooden propel-160 suph, enusury speed at 225, landing speed at 43



AVIATION NEWS . September 1L 1944

AVIATION NEWS . September 11, 1944

reced postwar air travelers through the upper air in







but specialized surports, designed weight class surplane. Developracal of sustable airports must

ment of air transportation, he FLocal expert enthusiasts too often over look important factors of sadely to site selection, with first and second, convenience and ac-

The grivate plane industry, of combination of air transport and

Minnesota Poll Shows

Private Flying Plans Minnesota Poll of Public Ocenion, conducted by the Manne politi

1125 to own an airplane, and one fly one. In its sampling of a crosssection of state operate, the pollsaked "Would you like to own Titts maid "mo." 5% said they are "andecided." To the constant "Wested you

like to fly an airplane?" City vs. Form Bookleats -/The dethan 2.932 perception) and terest (those with less than 2,500) than senses those on farms. The fig-

'Copter Delivery As experimental Accountsout Products, Inc., helicopter William Friene Sons Co. of

flying planes in Minnesota after the year the Minnesota Pell late leves they point in the direction of a wide public inclination to take The ship carried peckages from the Edene waterhouse to its Belmont branch store, takwould have planes. rear of the store.



DIRECTS PRIVATE SALES William A. Mare, nearly appointed private rates deventor of Councildated Vultee Aspensii Corp., whose

ursu age : crty, 2215; town, 2015; The growth of Minnesota's airpurdedness is shown in accreers by Mirrosota Pell interviewers. people and they had ever flown in throught they would use regular All Arr Civilians Of those who already have flown, 26 percent Il percent bud desc both. The other 2 percent had either fewo

These exceptions were salted cirate account the thousands of Minof the military services, whose aviation interest probably has Show Major Interest - While

to the six Petranglature then percentage of families who would like to own their planes, 154,000 famiher of the 135,000 in the state By contrast, there were 550 planes and 2,828 pilots in Minne-

note (customery shows and pilots ex-

ciudett en January 1, 1944, and a The CAA has forecast was see planes in the United States by 1950, of which Minnesota's please would be 12,500 L. L. Schroeder. Mirrecota acconsistes comeninoner regists 6,999 to 7,800

Airport Taken Over

By Otto Aviation Otto Aviotion Co. has taken over the Lake Susquehanna surport of Marritowa, N. J., on a long term outright the agents of Pickele Service, a flying school which has

class which had been used for W. Otto, president, said Otto Aviterreton) point in one of the routes the foring school formerty operatof by Purkey Service, Service facilities will be matriciped for transferd surgraft. The surport covered the actual landless field shop, a building divided into a plane hongar, offices and

Aero Insurance Opens New Offices

Acre Insurance Underwriters vitars and findings do not take are setting up field offices throughregulate new to experien branches and servicing of sircenti risks the Kazasa City branch office since 1900, has been appointed regional manager for the western states presently served by offices long established in Chicago, Karoas City and Dollas. He will retain Conner Shifted James F. Conner, recently beanch manager at In Chicaga Giftert D. Holcomb. and J. J. Mitchell, formerly office.

THE FUTURE IS OFTEN AS CLEAR AS A SUMMER NIGHT

The Lockheed Constellation



Facts show the Constellation to be a supersor airplane fra importance. harveyer, derives not from at the moment achievement or triumple. but rather from its significant place in the history of flight, in the long history of human relations, Scienrafic development moves slowly. Yet there are gare moments when the ingensity of the dealong bounds and the skills of the beneface comhine perfectly, swiftly acceleration the steady pace of progress And at these moments, the future becomes night, a factor that in this engage pledges ever greater planes to come. ever wider horizons, and a true bond of understanding among the peoples of the earth.





- O. I understand that the Constraintion can five a sew two A. Tree It is assigned in that if care CLEMA on two consen-
- Q. Does it fiv too high for comfort?
 - O. A french of mass justice that the Controllation mends not A. Lowden and it has then to mg h. About by eigens.
 - Or Hore must reach will the place comb award to any to both from A Assalu Broweld passagers sky sloper - 34 passages at mick,
 - A. The Arrey Air Freez are taking all we make After the war,

Send to your question; Address Laddaed Associa

LOOK TO Lookhood FOR LEADERSHIP

THE AIR WAR

Imminence of German Collapse Spotlights Air Power Blitz Role Allied superiority in aviation credited with turning tide and

speeding war's sermination; control of sir now regarded as preventions to success of any major land operation. With the imminence of German, so to present final combaned opera-

well depend. What part did Au has been made, from the highest authornike down, that air power

that willhout Air Power the way world not be seen Many arr enthunsts, bewever, have contendwar. This is almost certainly true many a detailed preument power did accomplish within the areits set by the combined

stratege planners, and what I Air Power's Job -- At Cambinger in January, 1948, the Combined Chiefs of Stoff (Admiral Leaby, British opposite rembers) ordered a pecat Brytish-U. S air offennive

solute victory but such weakening. Against

tions on the Continent without excestive cost. The staggering decomplete re-conquest of France in Mir Power Betrine-The street. these smeshing breakthroughs.

nir victory our forces would still be bestled up in the Cherbourg been hurled back late the sea.

attempts to synab and keep created the ball beering redat-Donn as this: What is the exact retartical victories on the buttlemay have added a new pranaple field? In fast what way did such

to the clause rune principles war when he made the fallowing ned chiefs of staff in Lendon. June. 1942: "I will not rewealth troom to ground setton without first having gained air outerior General Montgamery put it this the success of any major land This statement has been widely

custed, and is the opening sentroce in the 'Doctrine of Employ-Regulation FM 100-20, COM-MAND AND EMPLOYMENT OF Further Evolution Necessary

These tactical results of our nower ore apparent, and it is also now becoming generally realized that it would have been impossible, the sar power, to smash the enemy's arresult and engine for tories and other vital industria targets. However, when the sheet rag in over, expert studies as to the exact effects of strategic herebeckwent will have to be undertaken by a qualified commuseen of trained specialists. By this means it is bosed to



OPEN AIR REPAIR SHOP IN MARIANAS Character a 2,000 hp, excise and renairusz domage to the fusebor of a

Remahlir P.-47 Thursdorbolt at the 7th AAF Fighter Base is the Marianas



L1 TO EVACUATE WOUNDED IN BURMA AAF cays this is the first arephibens Streen L-1 leagen plane to be used

Air Puwer doctrine can be built hower, with May Gen Elwood Wiscouds, chaef of the Nitch AAF it seems repeably neved that Acres Are French Transmit Corp.

for of Flying Sidety, has compiled has proved to be the decusive structor. In softries to these moreuals, the Treasure Corresonfa noution on the town be mainsafred and that a theroughly by publications on fixed guarary for Aghter priots and movigation

Eisenhower Viewed Invasion from P-51 A North American P-51 Mus-

are was modified to give General turned from a freing frin to Brit-FUsed Against Bobots-He alid the British were using the Mas-

teng for dive-bombing tapks, the

AF Used A-20's To Dust Mosquitos

Harves, which peatler loads of msecticide up to 3,600 pounds over the infested area. Other types of planes carry oil sprays for small water targets such as canals. These Operations frequently are conducted in fermation, the War Defor this type of operation arose there was fittle special equipment for the job in the theater. Bowever, about 6,500 pounds of specoulded iferra were opticated to

New Harmon Task Lieut Gen Millard P. Harmon has assured command of all and east of the Philippines South Pecific and his newly creat ed position will give him yaruduction of all Army air operations in the entire Papric area under

the Mediterranean.

. War Department Bureau of Pubtribute by U. S. Army to American war workers wheertness makes a official errors shets and newer



MAGNISHIM BOMBS LEFT BY FLEEING NAZIS sorfield near Orleans, France. The fixting Germans left belood reach

allitude, lead rarge becabers, a conjument in good condition in their hante to except the American drive

AUTABION NEWS . September 15, 1944



REYNOLDS ALUMINUM:

sincenum rolled as other Beyenide plants.

To cool America's sky horses -Aluminum takes strange shapes

Feynolds Alamanan . . . and favoreting uphe . . . shorts moral-looking probling molds . . .

Door steage shapes of alarman

It was in sensor to on SOS culacces builden. We've but a ple have broken other Atmosphere and Post Div., Louisville 8, 20

AVIATION NEWS . September 11, 1944

A PROPIESE FOR TOMORROW



SUPPLY Division Inc.

As an important part of its contribution to the existion industry, Sepply Division Inc., wants to help alegraft parts dealers make more morey. In fact, we want to send a representative to call on you in person and give you the benefit of our 11 years of experiesce united through daily contacts with dealers throughout the country.

He will offer sound, practical selling plant-surgest were to increase your im-

mediate sales volume-recommend mercharafisian methods that will obe you a valuable competitive edge in your sales area. For this service there is no charge-you are under no obligation whomoexer. Lost Acon us a nose soder . . . and wo'll some he working with you to increase your present peofes and belo you prepare to take full tanities that will come with peace.

PERSONNEL.

Charles S. Mattean has recursed as William C. Lawrence in the new that engineer of American Export tweeter of undestroit relations for work in Washington for several months as anymory member of the National Airfrage Perci of the Wil tale, Matteen plans to open offices

es à convaituet un undustrial robtions problems. His successor of Ourtine-Wright will be appeared shortly. He regard the Gleen H.



receiled service as sixed engineering specialist with the West Production equipment. Before his sompresent with WPB, he was antistant chief W. Tiebber has been named

tion of the for

will report da

Cheers, N. Y. succeeding Withorn L. McGrath, returns, Tunkless has delphas Devesion of Benyles Moeorganisations. Matteon is author of "Year Corner in Avaidles" and is



the division, will continue as vice K. Habbard, II, has been appoint

nauteal Corp. have his bendgarriers in Electrawhere he was short of contracts and ed surples materials officer for Peatl years he headed the Duston office and Whiteer Aircraft division. of Yulker Amereft and was with spare parts sides. In his new posdisposal of raw materials, materials in process and finished parts made head had been with Philad for the



by John B. Crone well soon The

tic Converce, Department of Courserce, which has prepared state Commerce Commission. He economics and transportation at

Vought Aircraft division in 1998 as C. M. Van Eppe has been named sales transper of Goodyear Aircraft

craft place early in 1943 as a mean.



J. Don Jordan has feined the executive staff of Jeed-nort Avietson

YOUR "Wandanes Annes" FOR AERONAUTICAL AVIATION NEWS . September 11, 1944

try W. Grann Arm

Sherwood Gish, former traffic repreand daired mensor. William W.

> Columbia signort after receiving a medical discharge from the Army

pest 12 years, having Joined Chance

AVIATION NEWS . Sentender 11, 1864

A specialty in product design and engineering, Jordan was formerly with Sheripen and Amocuster

G. G. Cather, fremerly assistant charf engineer, has been made charf Kasser Cargo, Inc. He succeeds S. W. Ayer who pained Assertions Airwings made \$327 and has surved or

then assistant chief engages G. S. Thompson, chief design engineer, also been named assestant chief engineer to mooned Caffien He Arreyall, G. Nonum is now chief

Air Marshal Sir Harold E. Winting-

Brig. Geo. Albert J. Browning, or as president of the Detroit Buck.

month began working for Douglas. as a beach reschause in 1922, suc-Robels Buckman, formerly assessed Cal Maurice Hirsely of Houston

HORMER AURONALITICS REPRAIL COUNSEL CITED-

receased. Six Harold has had 21

of the Imitive in Assure

years' continuous survice with the

Chartes Afarra Before Buchanen



dance at the Georges deputes are

Bris. Gen. Harrist A. Burtren, for norty conceanding general of the Air Bervice Command in the Medfield Air Service Communit, Petter-on Field, Olso, Oat, C. H. Welen, who assumed the Fourfield coreroand last May, will remain as deputy converger.

Licut, Col. George T. Von Der Hoet green an underdesed soughesent Col. Edward H. Hagenah was served

Consolidated Value's Louprelle Di verson manuages that William D. modification, replacing Chill White who was transferred to the Fort farmerly assistant chief impected for the dryman has been appointed chaef suspector replacing L. E. Mar-bourg, also transferred to Fort

Studet N. Stort, new general counsel for the Surplus War Property placing Catherine Hartman, who was

Jake W. Ellebie his somed the 1942 to Moreh 11 1944. Attended the commission story, left to might staff of Kerryaeryr Inc. Hellywood Rear Admiral Arthur W. Radford, assistant to the Deputy Chief of Manul. employed by Lookheed Aircraft



WADSWORTH

in one year produced and delivered 2,564,913



MADSWORTH

SERVING THESE INDUSTRIES

of these ... SMALL PRECISION PARTS

· This handful of 59 of these small strel

· Yet this 5.9 master represents 6.63 heart of precision work, related to must eritical impection.

· Through Washaroth Engineering for ing Economics, a 20% Cost Respective has here effected and persul na to the environce.

WADDWOATH IS MAKING WORLD PRECISION PARTS FOR forty-five major companies which normally manufacture such products as sadio equipment, refrigorstors, accomprise parts, precision instruments After the war, Wadeworth's small parts facilities

can be of important assistance to many manufacturers in holding sales in a competitive market We shall be pleased to discuss with you the production of those small pasts and assembles was have found a problem in the past and may soon



VITAL STATISTICS FOR AIRCRAFTDESIGNERS, BUILDERS, OPERATORS

FACTS ABOUT "FLYING HORSEPOWER



Socony-Vacuum now has 19 great Catalytic Cracking units going full blast, producing "Flying Horsepower" for U. S. warplanes.

This represents the largest Catalytic Cracking Program in the world-11 years' research work-one new development after another-a \$90,000,000 investment in new refining facilities.

Socony-Vacuum's latest and greatest refining achievement is Thermofor Catalytic Cracking (TCC), TCC produces the highest quality base stocks of any process-and more of them from given amounts of crude.

Eight new Socony-Vacuum TCC units are "on stream,"

facilities will produce "Flying Horsepower" for the air giants you'll be planning and building.

SOCONY VACUUM OIL COMPANY, INC. 20 Boundary, New York 4, N.Y., and Affiliates: Hagrapha Petrologies Co., General Patrologies Com of Calif.

New Super Aviation Oil Helps Knew Engines Clean) none employee. The cust



FINANCIAL

Airline Earnings for 3rd Ouarter Expected to Offset Lag in Half

Ability of company to hold down operating expenses in face of sharp increase in gross business is vital factor in translating gain in gross into not income.

While sirline earnings showed period modurated a credit of \$378,a decided inconsument derive the second quarter, appregate results for the industry as a whole during h American-An apportant qualibehind the life period of 1943. sammer months, however, strentcarrier though a decline of \$646 .-\$50 or 22.9 percent for the first six period of 1943. Hawayer, the Garre in cross revenues are traportant had it us the ability to

outry man game down to the tranvaries for each currier. Taxes expans profits taxes for 1843 or layer taken an increasure tall of Springly, Beauty 1941 camone How that is beyond monageto reflect the reduction in mail competention for that year. Acgood indication of everall mona- cordinally by comparison, this cur-FCA Leads in Gress Gain-Of first as months of this year, in gross-a man of \$8.0 percent for for the separate componies are cray be qualified at some flatore sheers in Table L. Best not earn-

rugs, however, go to United These compensation, muldary contract ed to Table II. The transcripts b July Profit Un. The current up. For the first half of this year. ter is indicated by the gain of \$4.7 record over the like 1945 veryd.

profit was \$63,371. Unofficial extimotes place net for August arrend the \$100,000 mark Eastern Air Lines has yet to rehe downward earnings trend. This current shound a flex cline of \$7.0 percent during the The company's most profeshioregirds are expendly the fourth and first quarters when it experi-TWA Income Law - TWA's

corners have not rises to the levels anticipated in many circles here the carrier has deficulty in keessne its expenses under control been following with interest the officials to the staff of Hughes Tool Co., which owns about 45

percent of TWA's capital stock D. is surmised that Hugher, through these key mee, will try to place TWA on a more profitable facting Generally, the factors responwhile for the acceleration of earnings during the second quarter were the continued high utilizaof additional planes to commer-

Traffic at Feak-Even mor plarses were returned to the Error traffic at monk leavile. It is Tited's more profitable yet experienced favorable weather conditions

A slightly effecting factor may tie military contract services, effeetlyr, for the roast part, Sept. 1. vidles sarned knoons, However, the audites are pleased to reter as possible and present trends





when Hell freezes over

Rockyting from the order hell of a source basels simuria where the temnominard may be over 100° F. into someosphere cold of 100° below zero is tough on a pilet—but it's plain merder on strends labelcares. Oth heavy enough to stand teopic heat may compost at high sixtudes and jam. landing gear, gues, beenly bay doors. To solve the problem, a somerse at California Research Corporation, a

Sundard of California rebuilding

dured comerhing others had avoided. He added to all a specially developed viscous component. At ordinary temperatures it remained suspended. didn't affect viscosity. But as hear increased, the pasticles broke down to restocutor size and helped thicken the oil. When the oil cooled, these particles grouped coacther again and the oil sroamed to its former viscosity

So the Standard sciencist had a new oil which books all the rules, it thirlorned when heused, shinned when cooled-cools even be equilited to maintain the same viscosity through extremes of heat and cold

You can't buy this mirade oil yet. It's still to the experimental stage But, when it does go on the market. there'll be one less hazard in the sky. one more excepte of how Standard research makes the stresse's job

essier, safer, waret.

STANDARD OF CALIFORNIA



British Plane Output Figures Show Full Magnitude of U. S. Industry

American production for year 1944 expected to exceed the 50,000 tuened our by England from September, 1939, through the end of 1965

By SCOTT HERSHEY

Latest disclosure by the British the present production being comheavy bombers. It is estimated wreps, postly up the magnifude of year alone will too that floure. Nearly 56,560 planes were produced here in 1943 The United States strength indus-

our own strendt inerufacturing Athrovements of our own industry has produced more than 290.-000 planes since Peurl Hurbor and from July, 1940, through 1942, the

Combat Types Stressed-The Brylish industry from September. 1938, to the end of last year, urnduced just over \$6,000 surgraft of all types, more than four-fifths of

WIO. March. 1944.

over 1940, by structure weight the



HEATERS FOR STRATOSPHERE FLYING

Port of a absenced of Janifrol generalt heaters for mataliation in Arms and Many ploner surround a scorker at the Surface Combustion forters Columbus. It usuald recurre 160 farnates for accepan-sund house to cough the heat output, 9,500,000 RTU ner hour, of this arrest of heaters ANTATION NEWS - Sustantes 11 1644

AIRCRAFT PRODUCTION

ture weight of the 27,273 planes was 199,286,000 pounds. The ing at the rate of about 100 milten prends a month. The expansion of Britain's arecraft industry is shown in the fat-

(Weight Sparrs not breaklishin for a

In Juneany, 1946, the United States turned out only 267 planes -weighing 1,500,000 pounds including spore parts, so compared with 9,117 weighing 161,600,000 United States production in re-

The report from the British In.

year. the fighter production has second which were not in production in 1941, with new types to come into production within the next 15 months. The Merito enwas nearly nine times as great in 1942 on in 1933, is produced in 20

that the United States new has in to the most devestating combat 400 mpb, while England has three craft produced, it is noted that the British, who report that if this figure is added to the total of 27.372 that 45.493 servedt were reade



Ted garagery on Boung's B-29 Superfortrain are protected by hears ormer and thick bullet-proof class. The shorograph of a Hudson Motor

Unified Electrical Air Research Asked

temperatures, cooling, dust, where-55 of 67 names read or 4-day related to aircraft problems. h Powell Asks Nation-Wide Grosse engineers unify their research in C. A. Powel, newly elected areals Westingbouse Electric and

tion of protocras of reliability.

compactness, weight, high and low

New De-Icer Model as webtery and cavitan arroad; valopment Germany is probably tan percent ahead of the U.S., exrich Co. has been approved by PSpecial Fubric Used James S. sistence to tearing and that by made possible which improved the is attached to the leading edges of

Full-Span Wingflap New P.61 Device Given Black Widow recessed are broking power and permits slower landing on blacked our

correntional allegen and permit reased air braking power and also permit slaw landings an stlerens" by John K. Northrop. Operation ... These are mechanic

priots can turn on the proverbial dime despite the weight of the h Full Street Wheethers Neededresulted from the need for full plane wangs and in order to attitude sible as a beaking surface, the new cause of their great air speeds. speed. Conversely, night fighter

priory must be able to land their Among the fields of critical re- a thinner cross-section has been complete blackness. AVIATION NEWS . September 1L 1946

technisms edge in the special ply, craft safely in abort distances in

LOW-PRESSURE PLASTIC LAMINATES

FIBERGLAS'

many advantages

mostble substructed consumies in the

could notal forming machinery. For turn two, there new busi-

nates are superior to metal. For instances some have a greater

These bandantes also courses

(Investigal stability and low make

ture absorption, Such horizontes are

code with Fiberales Febries -

strong, darable cloth unde from



eroduction of Postery Aircraft. fare place Where twisted last years. Thanks to new developments in resize, which cure with little or to pressure, and with modernic heat, nates have done wonders to lateprofits the assessed qualities of Piloppins into their finished prodfoliabed without expension dies or acts For Fibergies Fabrics, themsolves, passens great tomple strength

with light weight, descendered strohiting and montage recistance. and narte-constitues, a combine tion of arroyal parts. This, in terrcar provide still more production economies through the elimination

1992 Norteday Bldg., Telado I. Ohlo. In County, Fibergles County, Ltd., Ochano, Onterio.













OTHER AIRCRAFT HISES OF FIRERGLAS













Pay Load Increased 200 Pounds! Is this on acceptable lives for adoption designers. Here the reserve expectity to product the analyses are

and usered Their season will be an embasicatic under severe company regulations. yes, especially since this substantial service in weight is accompanied by an accorde, but so the widely used on a post-war commercial transport other hand carries with it increased schedules place, carries a radio weight of \$40 persons. A and service (No for sadin equipment Howards the composition of audio decisions is used remofesturers. It has been found that electronic ago estuation per year of a ground seved as a explorant, when declared for festellation on commercial transpart, \$24,054.83 weeks by mistral Rebisson mesets, can be greatly linkened, with to the neterital ensuel now head will result this presintenest and beauty demands bill.

ity. It is now unnecessary to "beef up" the chossis. and seen to withstead the vibration of modern high-powered segious and the shock of leadings end tekn-offs. The Sabiroon Vibrasherb's suspension aund in

the warnings to assess what radio and delicate that weight proton development will not a class distinct Might instruments, absorbs better than 92% of all adventions in the convention menturer construer

ecesse and preseller effection and in addition. field ROBINSON AVIATION, INC.

730 PIFER AVENUE & NEW YORK IS M V



RETRACTABLE AILERONS SECRET DEVICE ON P-61 Radicelly note in this retrietable olivon of Northrop Aircraft's Black Widow. It is a honorth stressed secon which ruses from the surface of the

it necessity interpretion of the normal colerons such fiers for full-span (left), Northeap Sight field crew impervisor, and Boy Hazamel, Northrep

Electric |Powered Planes Studied Would eliminus much of six resistence crased by engine necelles

of the American Institute of Electrical engineers point out that be submerged in the wing structure, offering virtually no resutance to surflew

built in wings, engineers point

h Telet Penes Presented Tierri Col. 7. B. Helliday, of the Army Air Forces, William L. Berry, of Hughes Aircraft Co., and Frank W.

Godsey pointly presented a paper They described the needle 17th the fasciage With electric drive. the power piers consisting of now high-speed power sources and

could be suck in the wings, the reachle the use of repher-type of the proposal compensing that the Calair disadvantage of electric of electric drive on multiparature drive to airplanes. It was noticed ween fuel track and propeller

> Aero Meters Formed A new Canadian company, Acre reget start of Setton, Hersley Co.

Dunch Paper Co., of Canada, in pfacturing of the John Ingles Co.,

East Coast AWPC Output up Sharply

six meeths of 1944 compared with \$617,000,000 for entire todenory in first half of 1941. The eight company members of the Aircraft War Production Council East Coast, produced \$1.500.000,000 worth of sirplaxes, maines, peopellers and economist ux regettu of this year, compared with \$617,500,000 for the entire industry in the first half of 1941.

Countil in a report to the Board of Gavernors. Emargnet with be succeeded by Alfred Marchey, president of Republic Assation. Un 160 Percent in 3 Years-In-Scatember, 1941, he reported, the comparies turned out 2.503.030 pounds of strirame This monthly held, would increase the manuathan 500 percent in less than three years. The 1942 production of 11 .a convenient "shock-absorber" to In less than six months of 1944. coreporates new utilizes more food space than the entire industry in 1941 and Errorant reported that member company emplayee totals have risen from \$1,000 in Nov. 1941, to surrestimately 201,860 or August, 1944 A major parties of Own started with 1800s or ro ex-Exployee Output Up. The industry has not only staffed its expower plant, propellers, plane 165 percent in a little soure than two and a half years. This shows why 220 record were emplayees

Sell, Chance Venghi, Curtiss-Wright, Eastern Aircraft division of General Motors, Payribald Eng L. F. Winchell, vice-president size and Arminna Glean L. Marelectric generator, could be placed and general manager of Hude &

mare airframe wright than in Sep.

The Decides DC-4, for exemple, which may be

Temerrow's greater etriliners will carry many

but with Entirence Obreshook' assessation the

weight of this west priety continuent can be slope-

Manufactures toking advantage of this poten-

The Stake of the United States in Expanding World Trade

VITH the war in Europe racing to a chinax, and with a ware pattern for the detect of stops already eatherd, American haumen in confronted with the need for an arrandate decrease, an long-term econome policy.

What is the security's feetign trade program to be

after the var?

No michigned appeared of all the factors any larger can allow us to perspone considering the muse marrily because, in the past, foreign trade absorbed barely

because, in the past, foreign trade absorbed barely eight per cost of our production.

Actually, a whole new set of conditions was injected.

saled in approxing these new factors.

Almost swrength, the United States was transformed from the largest debter nature in the world to the second largest reduce axion. At the same time, we made faster technological progress than each other nature. Thus we constitute the seed for more deline embenge on the pay of the rate of the world and simultaneously reside in the pay of the rate of the world and simultaneously reside it handle for other sales on the many of the residence of the world and simultaneously reside it handle for other sales to the man deline.

Today, as assolves, for water was is agreeably as the east, these charged circumstances are reagated, Access east to mer responsibilities—to itself, and to the world. One west-inflated adstantian equating control to all jowed to drop back to prevent levels without counting a demonstreament without we down prepara. And, become no reach of the would as general to the American Administrat lowation, we now a become American Administrat lowation, we now a become American Administrat lowation, we now a become produced to the control of the American Administration of the supplement that are programs or of as supplement demonstration and the supplementation of the supplementation.

Wind war,

occusio home percetalist. World testic nontext he reliabil samply by attempting to present percent forms of greath. The war has an exempleity demand the consensat fiber of many controlled fiber of the special fiber of the little special fiber of t

We cannot expand carries for our goods, at home or abroad, unless toe find ways of buying more applies. During the late Nonteenth Centery

from more people at borne or abroad, so that they will have suone dollars to opend:

And we probably caused create successing buying power abroad without three capaciting more of our techneed shifts—our engineers, our production and manneament stems—to bridle new mandate for our companies stems—to bridle new mandate for our com-

What as needed to rebuild the world's comomic system?

Most base of all, of course, are wishle governments which constrond popular support. In the absence of strong governments, currency strainty cannot be achieved.
 Most war-stricken countries, for a year or two, will used.

play or test at current presentation.

E Learn, howevery, are usely a stoppingly, (bouch white a learning of the company of th

times pleasiful than as Messan.

Hetter exportant inter or var-orbideen countries to sell would result a government of the three to have the three pleased present the self-orbideen countries to get the three pleased forms and week below these countries to get the countries to consider the sealings controls which are now unserved the interest of the countries to the countries to get the countries of the count

 Permanent recentisty and credit serrosportants are needed to product neithers estand temperary positiones up that the corruption, by possiti recentage of change in exclusing twice to be mode as no orderly assurer, and to nature that prerements power action will expect the "Regard-my neighber polition of 1500 and 1502.
 Eiselft, New works needs a prevent of the trend toward.

from the great depression of the Thirties. This does mean that the effects of many raw-essional producountries to deverant their reductions should be appotively the late Nicoteonic Century and the first per During the late Nicoteonic Century and the first per the century, the interestinate quantitation of production which the control of the control of the control of of lowest upon the support of our tree years antivitition of the control of the control

What wise should the United Storm play in reconstructing the world's increminated common systems.

There are share who suggest that the United States he a more or hear personant itsues illeans. They believe that no secure of superior could be fusion. They believe that no secure of superior could be fusion to a give a form of the state of the superior could be fusion. They present who must have a fine superior supe

The most respectate contribution which the United Stetz can make by world reconstructure is to make it-

Prospectify here means a large demond by our technical is reported. The more we report, the cases will in her facility countries to meet their large and septement to meet their large and septement for product of the work of their large and septement of the product of the septement of the product of the septement of the septemen

percen, bit is should heep stell prospectus. So organteed in the United Steries is the cond-consense that a depression have to beauth to produce in chamists drop to three more constitute who are exercise interpreting the stellar of the constitute of the recoveries interpreting tears to present the entire of the world transtings fourth to present the entire of the world transtings fourth to present the entire of the world transtings fourth to present the entire of the world transtings fourth to present the entirely continued to the control of the control of the control of the transit is the worldwise during the critical percent when the worldwise during the critical percent when

approx in a transgement. Profit for the first interest in Proxity, the United States showl take the lead in breaking down between twelve. We are the largest country to do this, partly because of one terminal country to the partly because for most of the fast transfer mathet, and partly because for most of the fast transfer, and partly because for most of the fast transfer, and the partly because the mathet, and partly because the mathet, and the partly because the partly of the partly of

berran from but ener to rell in. The United States shauld irelevent this policy (1) by continuous than play (a) shauld relevent this policy (1) by continuous contexpositate enhancement of the state of the contexpositate enhancement which foreign currentved by the context of the context of the conwell be the world's need for goods that we can be more than to go deliver containing errand by sales to us will be converted into American-ends goods and will lend to the context of the cont

ogly per out of in standord fir lety, by unding pode, when and havening to the flag pode. More the wor, havening only more proposed to the property of the standbayed by internected locals. If their flaw way, we war more property of the property of the standord of hecomologic trees the standord of the standord of the standord of contrasts which report to standord of the standord of contrasts which report to standord of the standord standord or the standord of the standord or the standord of the standord of the standord or the standord or the standord of the standord or the standord orestandord or the standord or the standord or the standord or the

seems transmit these to each the freezent death of the law conception. The sameon is freezent would be inconsmolified which when the early comprobe the low force the east of the freezent conspiculation of the control of the east of the east of the east of the east of white weighteds and france. The interests in our new white weighteds and france. The interests in our new park would not not these relaxations in which our relaxation. Finally it would be infrastationess, to the contribution of the east of the force is the east of the force is the east of the force is the east of the east

world is dependent upon the United Batter, represent were concernly to great demands and to expert and wearable-state demands and to expert and wearable-stateding. The United Bitters must be witting to help the rest of the world, but in help sheeld that the Earn of the World but in help sheeld that the Earn of all this control of the world between the state of the World but in opportunity to give the world is most intakened when the control of the World but in opportunity to give the world is most intakened but the world but in the world but in

SMALL H. W. haw. fv.

CLUBION NUMBER - Restorator 11 10



They have pewer foiled from rebestion

or fexine There's no danger of guerning or internal erodus of Newstadov sacroment lines on the Navy's burd-hitting Vega "Ventum" (PV-I) Bombers. These bear susentials have a take of Compar, the charactely inert electories. As formulated for sirerell service. Comparhebricarts, gaseline, fixed blends . . . even Skin fraction and turbulence are reduced to n personal, too, by the days proofs surface.

Exceptional strength, togetheres and findhibty are other outstandor advantages of Resistables aircraft hose. It's healt for heavy dety-withstands sever shock loads. Resistofics have assumblies are residable in all standard lengths and dimensions for instrument and medium pressure hadrushe lines . . . meet opplesable Asset and Nary

Remodes Aircraft Catalog ... Write for it's

TRANSPORT

CAB Hearing Applications Of 6 Lines for Hawaiian Route

tion Co. in attempt to obtain continent for meanship firm; Department of Justice, opposing, cites anti-trust laws. By DANIEL S. WENTZ II

Six applicants for new reales. between the West Count and Hawere, one a steamship company, American Airways' menopoly in Testimony indicated that the case involves considerably more supplied to the Beard's intuitarthan a finding of convenience and pecessity. The Board, however, exidence the applicants my addiscuto demonstrate that the public in-

ternal requires more nor service Because of the war, Pan Amercommercially since 1941, phiboush certificated to do so. The accessor stearmhin line, as one of the spolirants, raised the old question of

Maritime Commission Intervenes Bear Admiral Emory S. Lund, box leng been an outspaken critic of

Across the counsel table were laws, is opposited with CAB's in-

AVIATION NEWS . September 11, 1944

tude in selmetting evidence, but Maritime Commission lawvers beforer case of Masson Naviga-Board's decision must be based on Endings of fact rather than opin-Feren-A future problem was forecast by exhibits of several apnuctics Act. An interpreted by the

phounts assureing faces they Bouckels true, Pan American's riers from custrating surines exface of \$175 one way, United Av-Lenso' to not of \$125, but Pas. Amertean has undercut all other propoud rates with an armounced service requested by a surface carspo-way face of \$64 tion, but Matson Navigntan Co. tuend me nervices. CAB, however Newson Testifies - Hawaiine

ment" vs. competition was argued

The policy of regulated compets-Cryst Aeropoutets Art under which

hapen to do so in the present case





NEW CHEMICAL DESCING LACOUER Outstanding results are claimed for a chemical descine languer for

application to on American Airlanes plane, and at right during floht hours. Hamilton says the line or equipping 30 of its planes with the paler contained in the Cryl Agro-minister, and other lines are conducting further costs this coming minter.



AVIATION NEWS . September 11, 1944

American's monopoly must be

courses of Western Air Ligar.

PCA Capital Traffic At 15-Year High The stendoy increasing in-

PCA now schedules 2s don't during 18 before the way. Plaze departures blownse race from \$52 in the South Parities

\$156,000 in June, and \$165,099 in A STREET, SEC. Morehly, Good-Not byreated at \$95,000. Trybrations are

Calif. Eves AA Rates Investigation leto passible ina position of presentance in this

California Rulroad Commission Lag in New Latches American may be required to file

DC-T's were able to reset the Seed.

tration field inspectors may check ungion.

the arrives with a report on the operation of the payroll

Payroll Bond Plan

The Treasury has provided

Ryan Sees Frisco, LA

An oswite-ground study of the

position Boood, during a West

believes development of our

At Air Crossroads

stallations as soon as they can get Teletype to Link

Northwest Stations feetallation of a system-wide

peogres with the siriusar, which

K. D. Ferrysons, NWA vice press-

increases in traffic volume on posed extension of NWA service Detroit, Cleveland and New Yer's how made the full-name teletype system necessary. Up to now must reservation messages have been transmitted by rudio telegraph. The surfine will retain on sadio telephone syriem for acr-

PCA numeroos it size has been brited At Los Augeles, Ryan said he that will leave radio carcueta free

Poets and Courts

Author of Chaples S Rhyne.

port purposes, sarport leases, regtaxation of sisports, damage clares. tors, an open rights of system

latch Carl Associates Admissis, of Menorical Low Officers, Wash-

Royce Choice Aids Competition Policy

By MERLIN MICKEL

Bayre, New York atterney, to tional sir transport. His posblom a few weeks ago from a year's lethancy, when it appeared the

axistion subcommittee of the Benabout to issue a report favoring a community company, or chaery speration Representatives of the stall such a report, and none was Copital Group Reorganized-Then proved of its nearlyand

strength, the group reorganized vertee liam A. Solomon, choirwas of Northeast Autimes, stermed mittee was appeared and Beyon

All indications at the recent way saked to join, he said to hald Lines, recomments of the core-

concernations in Washington have all reversion regular. "We do not preswildred compatibles." There may

LAST MILITARY FLIGHT:

wood of the Air Pressport Conreartie williary transport plane the equivalent of 2,576 coast-toto Alaska and across the Pacific

is a probability, "competition not recognized that explore b European - Thu is the view the

bock equipment on regular to it tiast when the Rurspean phase of

moles on difference what Rossia reclassification of Inland Air Lines. employees affected by Inland's ec-

too in certain is that after the war

povergenents will not regolists landing and transit rights with indryshal alrines—that such ar-As it has pointed out frequently Arronauties Act of 1988, as it now

mount on well as the doesester aspect of everton. The act calls prime objectives of Boyce and his group to to make sure that if Coneach changes be made only after extended politic bearings. Flight Tests on "39"

There is a strong possibility that Madel 16. Cornelidated Valtee's Liberatur-Liver, of the Civil Acroagainst Administration's new test have at Vandalin, Otto. The base are corples and eligible for rale the Cammondo, Murmoster, and will draw more than usual inter-

TACA Modifies Planes Desposition of sucht planes reproperty by the nelles Year DC-f's are below modified for South American service Two

A Barnetti UR-14, built in 1925

ALM A. WAL Agree

reached between the Air Line Mecharior Association and Western Air Lines, the farmer reports, on cutivition by Western The Asso-



Was has specified many people for slow transportation, of such "flying Levisthams" will be that of easy and in-particularly where long distances must be transport, about control of improviding of wine and built, and that Therefore, one important aim of postery sircroft designess is reported to be large and powerful plazes capable of carrying many passengers swiftly and conductably to

full atilization of encourages marting paper. There, Fafoir engineering shifter and emerience will serve -- as they have served through 15 years of modern aircraft design-With Exfer Ball Bearings, friction will be expines red Not the least of the problems posed in the construction out and sensitive, sure response will be engineered into

all turning points of power transmission and control. Aircraft desirrers have learned that, whenever a fries tion problem threatens Origan officiency. Enthir produces a precisely designed bearing to meet the need. Foreign works toward victory now - and will work toward great Bearing Commerce, New Bestum, Commerting

for Aircraft





17 YEARS OF AIR EXPRESS PROGRESS At left is the scene at Huffley Field, N. J. 17 posts tixent was storted by jour serbnes and Railway Kx-

for 16 returning stops and required 26 hours. New planes such as American's DC-2 at right operate on a 1928's 17.031 shiperenty to more than 1,366,000 in

on PCA's plantes, its offices and

Resume COD Service

the U. S. to more than a dozen

daras, Costa Rice, Trirefied, Do-

UAL Supplies Data On Alaska Weather

Mescorology office furnishes the United Air Lones, through its part in setting up the Alaskon Au-Systemat Meteorology Office rote

and Army Air Forces, United, Pan of United's Alaskan operations, annumed the line to un Alaskun scholedo Heffman serviced met the meteocology office after studies and exaferences with U. S. Weather Bream officials Pur-American meteorologists, Flostrument Flying-United says its nifledy with AATSUVe ald home

done instrument flower to measure. New PCA Indexes PCA's ness the degree thin in demeste service, signs uses decided on after scores The carrier has experienced no of daugna had been countered and specialing \$200 selectuated trips, (shown above) was created by shap in Warnesmacca, New, to be completing about 95 percent of John Waterfield, Washington com- operated under its suith regional trips planned

PCA Streamlines Name and Insigne

The mebits will know Persons varia-Central Airbres as 'PCA." affect a new same policy and In place of the longer name. The

only nighte with principal headstegan "The Capital Autus," to air express cellect services from • Issigne Replaced-The new de-

minican Republic, Harts. Cuba. Parrio Rice, Caral Zone, Pausma. Guinros and Veneruela. Because of suspended more August, 1943. Coast Beacon Service AA is astablishme an office and

AVIATION NEWS - Sestander II 1944

what's going to happen in Aviation?

Will see as back to the healful of collings places we had in 1940?

Can we conduct tomorrow's air compares with less than 500 transport planes. and stradily increasing. Will U.S. industry and the American public pass up

Shall we expect the driving force and flying eatherings of those pulling, keep, applitues and progressive young milesey agreen to enquestr without effect on

good runis, and there was no paint to building roads because we hadn't the parentales. If that bendle had specied us, a five-lifting duller industry would Shall we believe that arisation progress will be "tradecrated" because simplicar-

What do you think?





Douglas Asks End Of Dump Valve Rule

Sounds out CAA, sirlings and pilion for reaction to proposed that fuel dump valve requirements the openion that the valves, designed to permit the dumping of

of the Fairchild UC-61K

ATA AUTHOR their intended purpose and well managreph study of rollroad transit privileges. The book is just off Experience has indicated that the University of Chicago Prais. the valves will seldom if ever be-

even in circling an airport a large Weight Difference Minimizedweight difference of 600 pounds

> landing speed requirement is ex-SENSENICH more, reference or experient at debt and or Warr-Toront breach. To get been referenced below pose along others pro-the engalogy. necessary burdent to the DC-5

Farly Realy Asked-In ugging an early response to its suggestion,

used to Language Honological Account.

many of CAB's Wright hearing that tween a moner airport and a major

Contract Termination Releases UAL Pilots Two down offsts and pereral Yousport Command ended The

Fixing Record-UAL had chalked contract was ended. Its fiying for the ATC began between Army and depote in the U. S. in the spring of 1942, J. A. Herithy, operations vice president, estimated poundmules on the demonist military transport routes at 25,360,860,000. Cargo amounted to 24,260,886 pounds, and there were 16,660 mil-

Onirs ATA Board Turnell C. Druthwater, who re-

to do with American Airlines, has The renungtion was submitted

San Mateo Port Plans

City officials at San Mater. Cutof. reduct 2.502-fact rureway, 200 feet Route Applications Include Glider Line

Krown City firm would now Wayn with medium bombers. to the dest application of its band filed with the Civil Accounts. Kannan City asks CAB for a certificate systherizing a coast-tocourt scheduled property and mail by twin-engined medium bombers. The route requested by Van Zunte would connect Los Argeles

and New York via Chicago and other important U. S. prices. He and his associates would purchase for the freight operation, medium bombers and gliders which have he the beganning of a series of A Northwest Airlines' relot. Dunald W. Pennertz, applied to and Seath Deloria, Mirraesets,

Wisconsin and Iowa, Presents and his associates plan to form a tral Autimos. Conventional type A pention of Delta Air Corp. tion between Mendion, Miss, and New Orleans, Lo. on AM 24, box lar application. The enemption revice pattern in an important

public bearings are describle. Del-Another Brazill-impored trade area feeder sirkers, Kanssa City Airways, Doc. has applied to the its \$600,000 surborised expits) stock, \$100,000 has been tentalively subscribed Bravill owns 25

AVIATION NEWS - Security II 1884

Immediate annotas for coons CHEST 540-Other anotherwises include Arthur A. Vogurty, Springfald, Mine, permanent scrifficite for citionaled and non-nebelided mail and response permanent scrifficities and less Armine Cells, Tourish Artist and Les Armine Cells, Tourish Artist P-117, AVIATION NEWS

oto: freight service, which would be arrigated with the wavecard of Estates The applicant a has the first with the Preight Forwarders, Inc., Chi-

pulicant in a related company with & Atlantic Shippers Associate Co., Inc., Fred T. McLandon and Winter M. Carp. on, W. T. property and man service offerent Minast Pit. Bases Area, openion, and Hanling Chile over to contact with services to the con-dition of the contact of the con-tact to Applicant operates a Frank L. Kanath. Detroit, Mich., tion delivery service investe fastery rd purchase. Fafter Fixing Prelate. has

all and freight service between Fort write Ballan and Mexico City, D. F. Study Weather Data Aurina requirements for weathconsidered by sirling weather ex-

330 W. 42nd St., New York 1E. H. Y.

attended by Weather Burnays.

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nearing Planetca Service for

girport design and erection, we

are now ready to consider in-

added from postferment

Our Plans!

Waiting For

THE US ABOUT YOUR

Feeder Hearings

Open in Denver Booky Mountain Cast expected ODT Desector J. M. Johnson feeder nickup service. In a second to earlier com-

CAR Personer William J. Mading applications of more than a set a pottern for post-war localb Condict. Errby in the hearing there was indication of a conflict The matter is to be taken up

Airline Ads Hit

INDUSTRIAL AMERICA! Here's Sofety Underfeet -Here's Rest for Tired Feet MELFLEX house date badely breeding black my house must be read up by Medical State of house and belong by the badely see

AELITIES industrial threshop made are du-sch, nothing not no mention — they com-ceasing they sedem debyes, they industrial production, they disconting accordance APLIACE has quartified in industrial sabely



ARTON 5, GROSS

MELFLEY FARRIC LINK-TYPE SAFETY STANDING MATS MELLIEV BECOMES COMPANY

CAA Teaffic Mission Sent to Bearil

At respect of the Newy, the tion, to undertake varied traffic

to evercome language difficulties Beelere AAF Men-Air Force

National to Start N.Y.-Jacksonville National Artises plans to start

AM 21 between New York and Jacksonville, with two daily the mountain perion." Enterprise Namonal's H S Parker, Jr., communication in Colorado, Wyoservice except Philadelphia, Pa., First applicant beard was Ray Wilson, Inc. of Decrees, which Norfolk, Va., and Witnespton, N. C. These will be bypassed besurve 35 smoll consecutives. The Parent and schedules between

New Control System

Cred Aeroquities Administra-Columbus and MacDiD Field Turape, Fla., and CAA Admires. trater Charles I. Stonton anpresent that Washington National

Next on the but to receive the entinewal are Ruchmond, Va. Nashville, Tean, Charleston, S. C., of the stock. This approval is re-PRequested by Army—Successful

Airports where approach control is in effect include Pittsburgh, Pa. Atlanta, Ga. Fort Worth, Tex-

Braniff Testifies On Mexican Route

T E Beariff derlared last week Acres as Brazell, R. A. in Memor Oat, I. Dueling by exhibits in the Oklo-Get I. Revisable of sublidge in the Florida

Om. S. Spreing on the equipment of Fu-derman Green Arthur for a second of the Control of the second proper Second Second Children and proper Second Second Children and Ges. Mr. Date for undersys of religion in Oat, 55, Eablishe due to the New Marketel Mexican Grants—As a result of ment a 7,000 mile route restern was obtained for Appearing Box Non. L. Environ in the West Crist Case (Studies Ed Iv. et) before a release that Environ F. Herrit W. Lever mr. Fr. Conder F. Herrit Studies in the Christ-country F. Herrit Studies in the Chris Arthresian Son Typhanian, Edit For-point Studies Christian. to Miscre, Hayana, Paraces and the Mexican flag lane, however,

Sun 35 1945. Townshire bearing date Central Print R. 1962 Trematics bearing data Am-Judies review. racets of the CAR and State Des of setting landing mehts by on-

Stock Sale Involved-The pres-

CAB ACTION Chil Associates Food return to other of Dates and Espain, Yes, and Oktobers 100. Okt., persisted to interess in the Chiefester York was [Dates 22] of all. Chiange-Blee York uses [Double III vi vi).

a [Dir of Phile, Chia, more-self-Ell presentation in relayered to the Bree Observations in the presentation in relayered to the Bree Observation of the Investigation of the Security of presents of custoverse in the Energies Computer to all, heart-self-ell presentation with The Bree-family includes the custom that all presentations which began better than the probability of Bree-family pres under a supplier presentation of Bree-family presentations of the probability of Bree-family presentations.

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CAB SCHEDULE tred. H. Debening andrews as Subsail

let. I Protocopy conference late

JL. Darffine for returned schildre in the

25. Bracks der Dr. the Florida page

Ben. A. Toxiallies bearing date for applicants for factor proper in the New Regions come Chester but at al.

Per 12 Tentaline hearing date, North Parific

Appl. 16. Glarierad Siver York hearings has Exempter Frenk A. Law. 2r., and hearings Evidence.

Sapt. 16, Money at Kenthine, Abole. so typicalises at Ella Alt Troupers and Establises Air Service for additional ser-tended in confinement Aless Christ VII.

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tanks . . . for gas, eil and other aircraft requirements ... forms on im-

pottant part of Meccury production to which one entire plant is devoted.

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11 The Credit of Accident FARNONDIFORT . NIW TOE

Reconversion Philosophy

HEARTHY SERVICOPMENT in the Wishington A meantaining sent-torsears as one assume as the forthright statement by the War Production Board on its approach to reconvenants For several years the attitude of government wer arences has been that transition planning tary alanning. The whole trend of thinking has been toward a controlled economy. That economy duced and as long as an individual plant had not been discharged from work for the armed services: But the appropriesment of J. A. Knue, setting chairman of WPB, indicates this trend has been reversed. Business is to be given full rest, and the controls than thought possible previously. Rather WPB well act of Mr. Krous's declaration can be secepted, as a consultant approxy with the sole inter-This is encouraging, but it easent yet be termed earlier government thinking. WPB is not selfsufficient, and unless it is finaked by wholehearted acceptance by other acceptes Mr. Kruz's best innation will be able to reconvert at one time. The

instead of replacement from outside sources During high Income tax eras, it is pointed out, wage earners do not enjoy maximum benefit of pay pension plan encourages long service, enhances morale and builds employee confidence. As lone arrangements, while others have none at all, there by the Radroad Returement Act. A percently planned undestry system prohably aurimes. Employer payments could be deducted

prohibitive With industry-wide coverage there would be a materially better chance of reductor costs to where pensions could be made available at ages which fit the future needs of the industry. Proponents probably are too far-seeing for the majority of the arrive emoutives of today, flushed with rosy hopes for a future that seems to have no discouraging aspect, but the industry must ineviin some distant day hit a plateon. Those facts in addition to important advantages which would accrue encuedately, should be considered by the pension plan once more.

Progress or More Inertia?

Acconsisting Chamber of Commerce last week

Pensions for Airlines

The somewise aminous are exploring advantages of an industry retirement pension plan for all of their employees. First discussion of such a persuat was held in 1939, but no decimen was reached, although several companies adopted their Advantages to employees one obvious. The year and women who are building up the world's finest ay transport system not only will be assured orplan would bring higher payments, made at contier retirement are, than would be possible under in-

of the Chamber's member companies continue to ed support, to their national trade association. The reorganization, although begun much too late, is virtually completed. The task has been accomplished since June 1 under direction of John Lee. The organization is there. The personnel is there. Polycus have been drawn. But it meens nothing unless the industry stands toevilver from here on to meet its own mutual problems.

Bosser H. Woon



Homeward Bound

Brown Airgraft Armer Plate Brians 'Sm Resh Alice. In World-Wide Theatres of Worlden

Bosses Acrond: Armor Plate is to ectron today on Alland sycamor. tion for celefs and guarantes of Amerthe Broops Electric Heat Torotton they se transparent placeder and les-

Drawn Armer is manufactured to queliter and resustance to abstra-Covalete smembles to desirrers' Aircraft Acrest Plats supplements the well-known Berett line of equiprecet which is new in strates on lead, on the see, and so the sig-

A few of the Many Bress

Redo Igelton and Assistay Shalding Conduct and Fittings Internet To Rody . Shreeter





to withstand a centrifugal load of more than fifty tons, yet permit the blade to swivel freely w pitch is altered.

It must take into consideration the til caused by inertia, heavy propelling thrus scopic effects. And it must carry all applied at long leverage, by a few rollers on opposite sides of a base with only a 63/4" span.

If you have a propeller feathering problem, we'll be glad to help solve it. Don't hesitate to consult us. The Timken Roller Bearing Company, Canton 6, Ohio.

